

Area of Triangles - extension

Annie is calculating the area of a right-angled triangle.



I only need to know the length of any two sides to calculate the area of a triangle.

Do you agree with Annie? Explain your answer.

Tom is making a banner for school. It is in the shape of a triangle. The base is 3m and the height is 250cm. It costs \$45 per square metre for the material. How much will he pay?

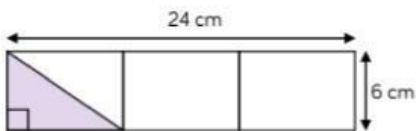


Area = 54 cm^2

What could the length and the height of the triangle be?

How many different integer possibilities can you find?

Calculate the area of the shaded triangle.



Mo says,



I got an answer of 72 cm^2

Do you agree with Mo?
If not, can you spot his mistake?

1. What is the area of the banner?

$$A = \underline{\hspace{2cm}} \text{ m}^2$$

2. How much will it cost for the material?

$$\text{Cost} = \$ \underline{\hspace{2cm}}$$

Give 3 possible dimensions for the triangle.

2. Base = $\underline{\hspace{2cm}}$ Height = $\underline{\hspace{2cm}}$

3. Base = $\underline{\hspace{2cm}}$ Height = $\underline{\hspace{2cm}}$

1. Base = $\underline{\hspace{2cm}}$ Height = $\underline{\hspace{2cm}}$

What is the actual area of the triangle?